PROJECT DESCRIPTION

GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD 117 (Clopper Rd) and Kingsview Rd in Montgomery County. Countdown pedestrian heads with audible pushbuttons shall be installed across the north and east legs of this intersection. MD 117 (Clopper Rd) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA three-phase, semi-actuated mode, with the MD 117 (Clopper Rd) approaches running concurrently. A Countdown pedestrian phase with audible pushbutton actuation shall be provided across the east leg of MD 117 (Clopper Rd). A Countdown pedestrian phase with audible pushbuttons on recall shall be provided across Kingsview Rd. The farside sampling stations on the east leg of MD 117 (Clopper Rd) shall remain in operation at this intersection. The Kingsview Rd approach shall continue to run in its own phase.
- The existing full-traffic-actuated, eight-phase controller with L.A.U. and L.A.U. Panel and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.
- Montgomery County Signal Shop shall install APS control unit into controller cabinet. The APS push buttons should be delivered to the Montgomery County Technical Center for programming at least two weeks prior to the beginning of work.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- 2. All controller cabinet wiring will be performed by Montgomery County Forces. Contact Kamal Hamud at (240) 777-8761 seventy-two hours in advance of intended work.
- 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

4. APS will function as follows:

TO CROSS CLOPPER ROAD

- a When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message "Wait to cross Clopper
- b. When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.

TO CROSS KINGSVIEW ROAD

Mr. Victor Grafton

Phone: (301) 513-7350

- When pedestrian locates and presses the pushbutton for an extended time. the pushbutton unit will announce the following message "Wait to cross Kingsview
- When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.

Mr. Bob Ricketts

240-876-3681

410-787-7670

The contacts for Montgomery County and SHA are as follows:

R10-3(1) sign. (Note: Sign to read

"PUSH BUTTON TO CROSS

CLOPPER RD")

Ms. Anyesha Mookherjee	
Assistant District Engineer - Traffic	
Phone: (301) 513-7318	

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787-7630

Mr. Vernon Stinnett Assistant District Engineer - Maintenance Signal Shop (Mont Co.) Phone: (301) 513-7304

Mr. Sonny Bailey Assistant District Engineer - Utility Manager, Sign Shop Operations

EQUIPMENT LIST

EQUIPMENT TO BE SUPPLIED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION AND INSTALLED BY THE CONTRACTOR.

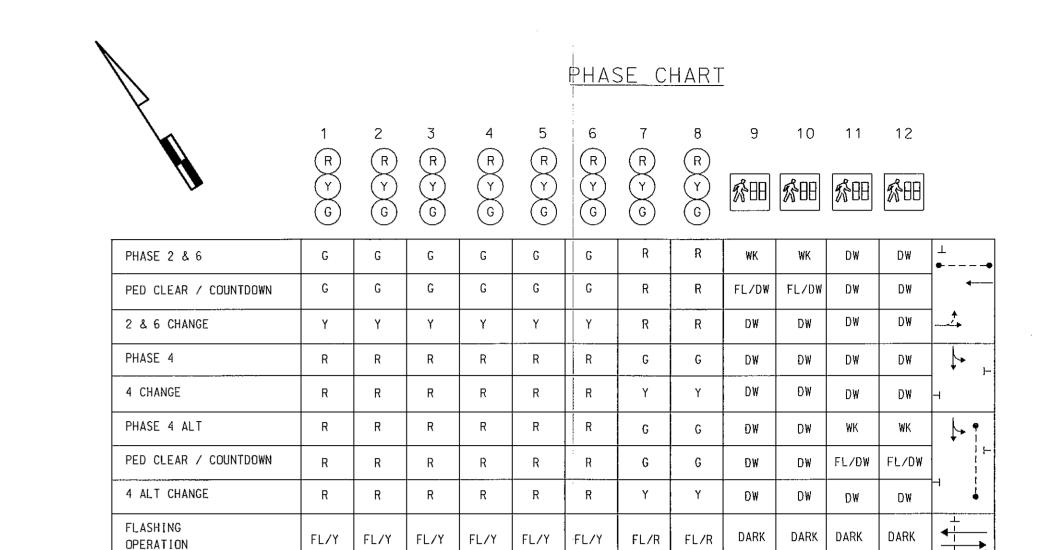
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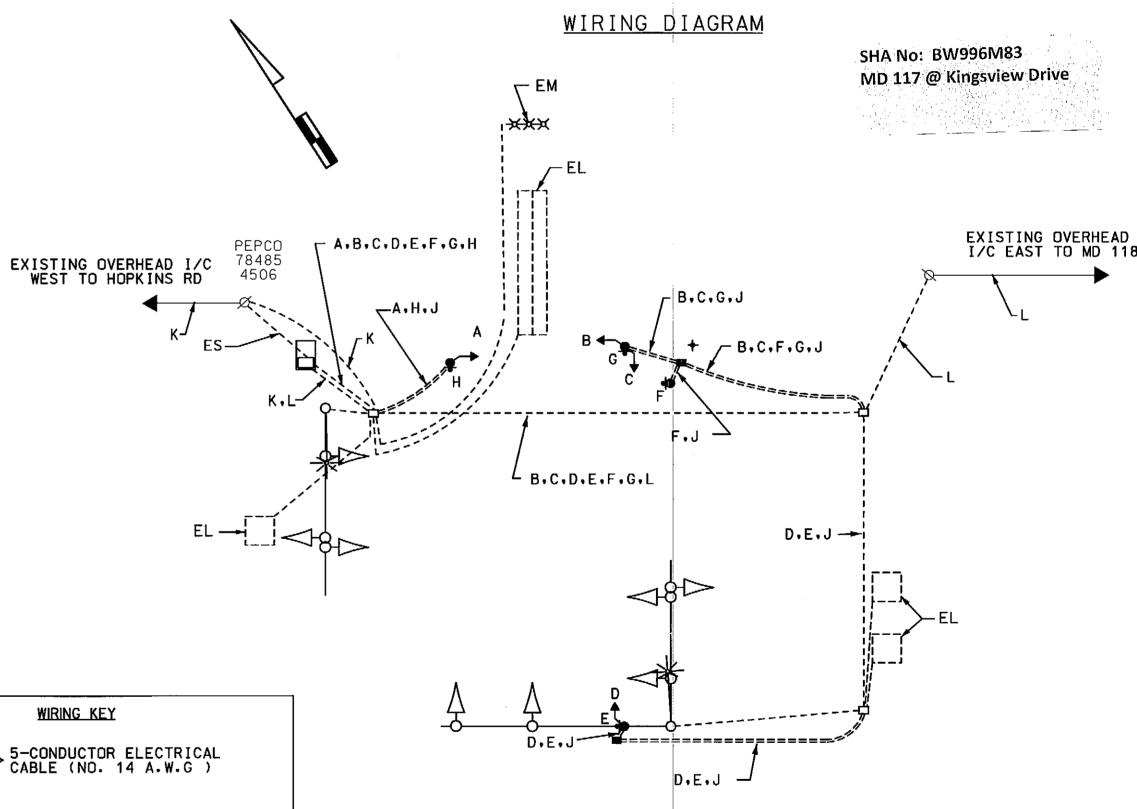
DES	CRIPTION	QUA	NTITY
S1-1 FLASH	"SCHOOL CROSSING (Symbolic) ING" sign, (30"x30") pole mounted	2	Each
	o(L) "LEFT DIAGONAL ARROW olic)" sign, (24"x12") ground mounted	2	Each
R10-3 ("PUSH	trian pushbutton and pedestrian education (1) sign, (Note: Sign to read BUTTON TO CROSS VIEW RD")	2	Each
Pedes	trian pushbutton and pedestrian education	2	Each

EQUIPMENT LIST (cont.)

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	QUAN	TITY
1001	Maintenance of Traffic	2	Day
2001	Class 2 Excavation.	5	C.Y.
2002	Test pit excavation.	4	C.Y.
5012	Standard Type A curb. 8" x 17".	250	L.F.
5016	4" concrete sidewalk, mix No. 2.	920	S.F.
5020	Remove curb and gutter.	125	L.F.
5022	Remove sidewalk.	510	S.F.
8001	Concrete foundation.	2.5	C.Y.
8023	3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).	195	L.F.
8043	Ground rod, 3/4" diameter x 10' length with clamp.	1	Each
8064	2-conductor electrical cable (No. 14 A.W.G.).	910	L.F.
8066	5-conductor electrical cable (No. 14 A.W.G.).	930	L.F.
8075	1-conductor electrical cable (No. 6 A.W.G.) stranded bare copper ground wire.	270	L.F.
8081	Wood sign supports $(4'' \times 4'')$.	32	L.F.
8136	Traffic signal handbox (pullbox).	2	Each
8148	Relocate sign.	2	Each
Neg.	Remove existing pavement markings.	30	L.F.
Neg.	12" white heat applied permanent preformed thermoplastic pavement marking.	425	L.F.
Neg.	24" white heat applied permanent preformed thermoplastic pavement marking.	30	L.F.
Neg.	Furnish and install depressed curb & gutter.	45	L.F.
	10' breakaway pedestal pole with transformer base.	3	EA
	5' breakaway pedestal pole with transformer base.	1	EA
Neg.	Furnish and install 16" LED Countdown pedestrian signal head.	4	Each
	Roadway sawcut.	70	L.F.
	2 wire Central Control unit	1	EA
	Detectable warning surface	80	S.F.
	Audible/tactile pedestrian pushbutton station & signs.	4	EA
	Backfill	290	SF
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B | 5-CONDUCTOR ELECTRICAL C | CABLE (NO. 14 A.W.G)

E 2-CONDUCTOR ELECTRICAL G CABLE (NO. 14 A.W.G)

- K EXISTING 12-PAIR INTERCONNECT CABLE
- J STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- EM-MICROLOOP LEAD-IN CABLE
- EXISTING EL-LOOP WIRE (NO. 14 A.W.G.)
- EXISTING ES-EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY PEPCO

+ - GROUND ROD



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

MD 117 (CLOPPER RD) AND KINGSVIEW ROAD GERMANTOWN, MD

STREET TRAFFIC STUDIES, LTD. 400 Crain Hwy., N.W. Glen Burnie, M.D. 21061 Ph (410) 590-5500 Fax (410) 590-6637

GENERAL INFORMATION SHEET SCALE NONE DATE 8/3/10 CONTRACT NO. DESIGNED BY R.R.Z. COUNTY MONTGOMERY

LOGMILE 15011707.30 DRAWN BY_ CHECKED BY &//D TIMS NO. ___K422 F.A.P. NO. TOD NO.

TS NO. 3798A DRAWING NO. 2 OF 2

SHEET NO.

5891GI.DGN PLOTTED: \$DATETIME\$
FILE: \$FILE\$